

$^{11}\text{B}(\text{He}^3, \text{He}^3)$  [1971Wa21, 1977Sh09](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu		NP A880, 88 (2012)	1-Jan-2011

1969Mi15:  $^{11}\text{B}(\text{He}^3, \text{He}^3)$ , E=10, 12, 18 MeV.

1969Pa11:  $^{11}\text{B}(\text{He}^3, \text{He}^3)$  E=4-18 MeV, measured  $\sigma(\theta)$ . Deduced optical-model parameters.

1970Nu02:  $^{11}\text{B}(\text{He}^3, \text{He}^3)$  E=14 MeV, measured  $\sigma(\theta)$ . Deduced optical model parameters.

1971Wa21:  $^{11}\text{B}(\text{He}^3, \text{He}'^3)$  E=29.8 MeV, measured  $\sigma(\text{ef})$ ,  $\sigma(E(\text{He}'))$ ,  $\sigma(\text{En})$ .

1972Bu30:  $^{11}\text{B}(\text{He}^3, \text{He}^3)$  E=13 to 27 MeV, measured  $\sigma(E(\text{He}^3), \theta)$ . Deduced optical-model fits.

1977Sh09:  $^{11}\text{B}(\text{He}^3, \text{He}^3)$  E=17.5, 40.0 MeV, measured  $\sigma(\theta)$ . Deduced optical model parameters.  $^{11}\text{B}$  deduced quadrupole, hexadecapole deformations.

1979Go07:  $^{11}\text{B}(\text{He}^3, \text{He}^3)$  E=46.1 MeV, measured  $\sigma(\theta)$ .

 $^{11}\text{B}$  Levels

E(level)	T <sub>1/2</sub>	Comments
0		
2.12×10 <sup>3</sup>		E(level): from (1977Sh09).
4.44×10 <sup>3</sup>		E(level): from (1977Sh09).
5.02×10 <sup>3</sup>		E(level): from (1977Sh09).
6.74×10 <sup>3</sup>		E(level): Unresolved.
6.79×10 <sup>3</sup>		E(level): from (1971Wa21), (1977Sh09).
7.30×10 <sup>3</sup>		E(level): from (1971Wa21).
8.00×10 <sup>3</sup>		E(level): from (1971Wa21).
8.57×10 <sup>3</sup>		E(level): from (1971Wa21).
8.93×10 <sup>3</sup>		E(level): from (1971Wa21).
9.19×10 <sup>3</sup>		E(level): Unresolved.
9.27×10 <sup>3</sup>		E(level): from (1971Wa21).
10.25×10 <sup>3</sup>		E(level): from (1971Wa21).
10.60×10 <sup>3</sup>		E(level): from (1971Wa21).
11.27×10 <sup>3</sup>		E(level): from (1971Wa21).
12.51×10 <sup>3</sup>	5 260 keV 50	T=3/2
12.98×10 <sup>3</sup>	9 0.39 MeV 9	E(level): $\Gamma$ : from (1971Wa21).
13.03×10 <sup>3</sup>		E(level): $\Gamma$ : from (1971Wa21).
14.40×10 <sup>3</sup>	5 220 keV 50	E(level): from (1971Wa21).
14.51×10 <sup>3</sup>		E(level): from (1971Wa21).